traction motor for application to the external electrical load.

- 22. (New) The system according to claim 21, wherein said switching device comprises a contactor.
- 23. (New) The system according to claim 21, further comprising:
- a filter coupled to said switching device for minimizing noise in the diverted AC power input; and
- a transformer coupled between said filter and the external electrical load.
- 24. (New) The system according to claim 21, further comprising:
- a DC-to-DC converter coupled between said first electric machine and said first inverter for generating lower voltage DC electrical power from the DC electrical power produced by said first inverter;

an inverter coupled to said DC-to-DC inverter for converting the lower voltage DC electrical power to an AC power output for application to the external electrical load.

- 26. (New) The system according to claim 24, further comprising a second filter for minimizing noise in the AC power output.
  - 27. (New) The system according to claim 24, wherein: said DC-to-DC converter is a two-way DC-to-DC converter; said inverter comprises a rectifier, and said system is operable in a charger mode...
- 28. (New) The system according to claim 27, further comprising means for selecting operation of said system in a generator mode versus the charger mode.

(New) A motor vehicle electrical power generating 29. system for powering an electrical load external to the vehicle, comprising:

an internal combustion engine;

a battery;

an electric generator coupled to said internal combustion engine for generating AC electrical power when said internal combustion engine is running;

a generator inverter disposed between said electric generator and said battery for converting the AC electrical power generated by said electric generator to DC electrical power:

a DC-to-DC converter coupled between said electric generator and said generator inverter for generating lower voltage DC electrical power from the DC electrical power produced by said generator inverter; and

an inverter coupled to said DC-to-DC inverter for converting the lower voltage DC electrical power to an AC power output to power the external electrical load.

- (New) The system according to claim 29, further comprising a second filter for minimizing noise in the AC power output.
  - (New) The system according to claim 29, wherein: said DC-to-DC converter is a two-way DC-to-DC converter; said inverter comprises a rectifier; and said system is operable in a charger mode.
- (New) The system according to claim 31, further 32. comprising means for selecting operation of said system in a generator mode versus the charger mode.